

AMENDMENTS TO CLAIMS

Please amend the claims as shown in the following listing of claims which will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 – 15 (Canceled).

16. (Previously Presented). A 1.5 dimensional transducer having a plurality of elements, said transducer comprising:

a conductor;

a piezo-electric assembly on a first side of said conductor, said piezo-electric assembly having a first plurality of cuts in a first direction;

a matching layer assembly having a second plurality of aperture cuts in said first direction, wherein said matching layer is coupled to said conductor opposite said piezo-electric assembly such that said first and second pluralities of elevation cuts are aligned to isolate said plurality of elements in an elevation dimension, wherein said conductor is not severed by said first and second plurality of cuts, wherein said transducer further comprises a plurality of major element cuts in a second direction, and wherein said plurality of major element cuts are made in said piezoelectric assembly and said matching layer assembly, and sever said conductor.

17. (Original). A multi-dimensional transducer according to claim 16 wherein each of said first and second pluralities of cuts is filled with an acoustically-attenuative material.

18. (Previously Presented). A multi-dimensional transducer according to claim 16 wherein a flex circuit is attached to at least one of said plurality of elements.

19-20. (Canceled).

21. (Previously Presented). A multi-dimensional transducer having a plurality of elements, said transducer comprising:

a conductor;

a piezo-electric assembly on a first side of said conductor, said piezo-electric assembly having a first plurality of cuts in a first direction;

a matching layer assembly having a second plurality of aperture cuts in said first direction, wherein said matching layer is coupled to said conductor opposite said piezo-electric assembly such that said first and second pluralities of elevation cuts are aligned to isolate said plurality of elements in an elevation dimension, wherein each of said first and second pluralities of cuts is filled with an acoustically-attenuative material, wherein said piezo-electric assembly further comprises a plurality of cuts in a second direction, wherein said plurality of cuts in said second direction comprise major element cuts that isolate said plurality of elements in an azimuth direction, and wherein said plurality of cuts in said second direction further comprises a plurality of minor element cuts.

22. (Original). A multi-dimensional transducer according to claim 21 further comprising a plurality of signal leads, wherein each of said plurality of signal leads is coupled to one of said plurality of elements.

23. (Original). A multi-dimensional transducer according to claim 22 wherein said plurality of signal leads comprises a flex circuit.

24. (Original). A multi-dimensional transducer according to claim 23 wherein said flex circuit is coupled to said transducer prior to the cutting of said plurality of major element cuts.